

DIGITAL ELECTRONIC CIRCUITS

1	Course Title:	DIGITAL ELECTRONIC CIRCUITS	
2	Course Code:	EEM4315	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	7	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr.Gör.Dr. İSMAİL TEKİN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Öğr. Gör. Dr. İsmail TEKİN E-posta:itekin@uludag.edu.tr Tel: (224) 294 2030 Adres: Elektrik - Elektronik Mühendisliği Bölümü, Ofis No:316	
17	Website:		
18	Objective of the Course:	This course is designed to introduce engineering students to the basic structure and analysis of digital integrated circuits.	
19	Contribution of the Course to Professional Development:	The ability to analyze and solve a problem with available data	
20	Learning Outcomes:		
		1	Have an understanding of fundamental properties of digital integrated circuits
		2	Understand switching properties of diodes and transistors
		3	Become familiar with TTL circuits and learn analyzing of TTL circuits
		4	Become familiar with CMOS circuits and learn analyzing of CMOS circuits
		5	Have an understanding of difference between TTL and CMOS circuits
		6	Become familiar with BICMOS circuits and learn analyzing of BICMOS circuits
		7	Have an understanding of solid state memories
		8	
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		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Fundamental properties of digital integrated circuits.		
2	Switching of diodes and transistors.		

ÖK5	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			